What is claimed:

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- 1. A preparation for accelerating an exchange reaction between a nucleotide sequence at a specific site of a double stranded DNA or RNA and its homologous nucleotide sequence, comprising a cationic polymer having a guanidine group-containing main chain and a hydrophilic functional group as an active ingredient.
- 2. The preparation as of claim 1 wherein the guanidino group is derived from arginine.
- 3. The preparation as of claim 1 or 2 wherein the main chain of the cationic polymer comprises a moiety obtained by guanidination of a polymer having a primary amino group or a secondary amino group.
 - 4. The preparation as of claim 3 wherein the ratio of residues

 5 having the guanidino group in the main chain of the cationic polymer is 0.3 to 1.
 - 5. The preparation according to one of claims 1 to 4 wherein the numbers of the arginine residues and the lysine residues contained in a polyarginine block or a polylysine block, respectively, are 10 to 5,000.
 - 6. The preparation according to one of claims 1 to 5 wherein a side chain of the cationic polymer comprises the hydrophilic functional group.
 - 7. The preparation according to one of claims 1 to 6 wherein the hydrophilic functional group is a hydrophilic polymer

selected from polyethylene glycol, dextran, or hexa maltose.

- 8. The preparation according to one of claims 1 to 7 wherein the hydrophilic polymer bonds to the primary amino group or secondary amino group of the cationic polymer in a graft-shape.
- 9. The preparation according to one of claims 6 to 8 wherein its molecular weight as a free salt is 2,000 200,000.
 - 10. The preparation according to one of claims 6 to 9 wherein the content of graft-shaped side chain derived from the hydrophilic polymer is 30 to 90 % by weight.
- 10 11. The preparation according to one of claims 6 to 10 wherein grafting ratio is 5 to 40%.
- 12. The preparation according to one of claims 1 to 11 wherein the exchange reaction occurs in hybridization of fluorescence in situ hybridization (FISH), polymerase chain reaction, reverse transcription PCR (RT-PCR) or DNA chip with a DNA having target double stranded structure.
 - 13. The preparation according to one of claims 1 to 11 wherein the exchange reaction occurs in exchange between a specific nucleotide sequence of a double stranded RNA and a single stranded sequence of antisence DNA, RNA, or ribozyme.
 - 14. The preparation according to one of claims 1 to 11 wherein the exchange reaction occurs between a specific nucleotide sequence of double stranded DNA and its homologous nucleotide sequence so as to regulate expression and replication of a gene.

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